

#### ABSTRACT

An electronic toothbrush comprising: a brush head portion having a bristle portion, to be inserted into an oral cavity, for washing teeth; and a holder portion to be exposed outside the oral cavity, wherein  $\text{TiO}_2$  which is an n-type semiconductor is provided so as to receive external light; and the n-type semiconductor is connected to a negative pole of a solar battery and an electrical potential is superimposed on the n-type semiconductor.